

Claims

[c1] What is claimed is:

1.A method for adjusting cooling in a projection system, said projection system comprising a fan, a louver and a sensor installed between said fan and said louver, said method comprising the following steps:

(1)allowing said fan to rotate at a predetermined rotational speed to drive air and said louver to be at a predetermined open rate when said system is turned on;

(2)detecting a temperature of said air through a sensor;

(3)increasing an open rate of said louver gradually and then increasing a rotational speed of said fan gradually when said temperature of said air is risen over a predetermined temperature;

(4)decreasing said rotational speed of said fan gradually and then decreasing said open rate of said louver gradually when said temperature of said air is lowered down and said rotational speed is higher than said predetermined rotational speed; and

(5)closing said louver when said system is turned off.

[c2] 2.The method according to claim 1, wherein said projection system further comprises an air outlet, said louver is

installed at said air outlet.

- [c3] 3.The method according to claim 1, wherein in said step (3), said temperature of said aid is continuously risen, increase said rotational speed of said fan gradually when said open rate of said louver is increased to the maximum.
- [c4] 4.The method according to claim 1, wherein in said step (4), decrease said open rate of said louver gradually when said temperature of said air is lowered down and said rotational speed of said fan is decreased to said predetermined rotational speed.
- [c5] 5.The method according to claim 1, wherein at least one diversion plate is installed in said louver, a plurality of vents are disposed in said diversion plate, and said louver is closed when said system is turned on.
- [c6] 6.The method according to claim 1, wherein at least one diversion plate without vents is installed in said louver, and said louver has a predetermined open rate when said system is turned on.
- [c7] 7.The method according to claim 1, wherein at least one diversion plate without vents is installed in said louver, and said louver is fully opened when said system is turned on.

[c8] 8.The method according to claim 1, wherein said projection system comprises an air inlet, a louver is installed in said air inlet, and an open rate thereof is changed as said louver of said air outlet.

[c9] 9.The method according to claim 1, wherein said projection system comprises an air inlet, a louver is installed in said air inlet, and said air inlet is closed when said system is turned off.

[c10] 10.An apparatus for adjusting cooling in a projection system, comprising:
a fan, used to yield airflow to cool said projection system;
a louver, located in said airflow and a plurality of freely rotated diversion plates being installed therein;
a driving element, used to drive said diversion plates to rotate; and
a sensor, installed between said fan and said louver to detect temperature;
Wherein said sensor is used to detect the rise and the drop in said temperature so as to adjust a rotational speed of said fan or a rotated angle of said diversion plates.

[c11] 11.The apparatus according to claim 10, wherein said

louver is installed on an air outlet in said system.

- [c12] 12.The apparatus according to claim 11, wherein a light shielding airflow channel is disposed before said air outlet.
- [c13] 13.The apparatus according to claim 11, wherein said diversion plates can be closely connected with one another to seal said air outlet.
- [c14] 14.The apparatus according to claim 10, wherein a rotating axis is disposed at the center of each said diversion plate and a pair of vents are respectively disposed at two sides of said axis.
- [c15] 15.The apparatus according to claim 10, wherein said driving element is a stepper motor.
- [c16] 16.The apparatus according to claim 10, wherein one end of each said diversion plate is connected to a pivoting axis, one end of a link lever is connected to each said pivoting axis, another end of said link lever is connected movably to a supporting shaft and said supporting shaft is connected to said driving element.
- [c17] 17.The apparatus according to claim 10, a shape of each said diversion plate is streamlined and an axis is disposed therein so as to allow said diversion plates to ro-

tate around said axis freely.